

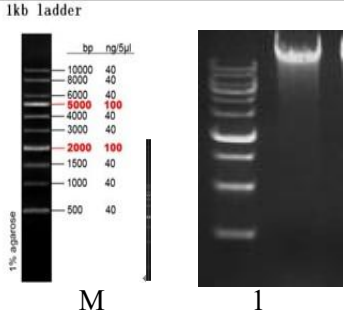
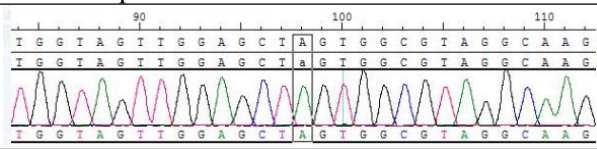
# CERTIFICATE OF ANALYSIS

## KRAS p.G12S Reference Standard

### Product information

Name	KRAS p.G12S Reference Standard
Catalog No.	CBP10297
Lot No.	GBD31058684
Format	Genomic DNA
DNA Change	c.34G>A
AA Change	p.G12S
Mutation Type	Substitution - Missense
Zygoty	Homozygous
Allelic Frequency	100%
Transcript	ENST00000311936
Chr position(GRCh37)	chr12:25398285
Copy Number	3
Ploidy	2.76
Buffer	Tris-EDTA
Storage Conditions	4°C
Date of Manufacture	Aug.-10-2022
Expiry	36 months from the date of manufacture

### Quality Control

Test Items	Standard	Results	Passed
Quantity	1ug/vial*4vials	1ug/vial*4vials	√
Concentration	Qubit 3.0	40 ng/uL±10%	√
OD <sub>260</sub> /OD <sub>280</sub>	1.7~2.0	1.82	√
DNA electrophoresis	No Degradation	 <p>1kb ladder</p> <p>bp ng/5µl</p> <p>10000 40</p> <p>8000 40</p> <p>6000 40</p> <p>4000 40</p> <p>3000 40</p> <p>2000 100</p> <p>1500 40</p> <p>1000 40</p> <p>500 40</p> <p>1% agarose</p> <p>M</p> <p>I</p> <p>M: Marker</p> <p>I: KRAS p.G12S Reference Standard</p>	√
Genotype	Sanger Sequencing	 <p>90 100 110</p> <p>T G G T A G T T G G A G C T A A G T G G C G T A G G C A A G</p> <p>T G G T A G T T G G A G C T A A G T G G C G T A G G C A A G</p> <p>T G G T A G T T G G A G C T A A G T G G C G T A G G C A A G</p>	√
%AF	100%	100% by DdPCR detection	√

**Caution:**

For research use only.

If you have any questions about the Certificate of Analysis, please contact us.

Certified by:  Date:\*\*\*\*

 Date:\*\*\*\*